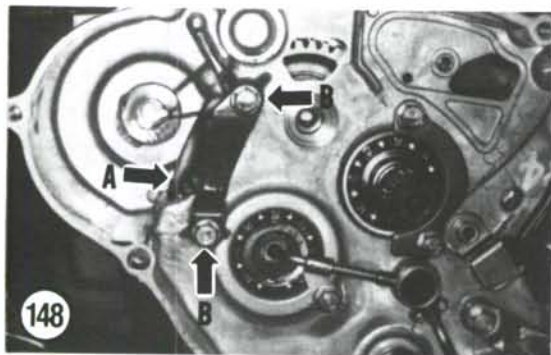
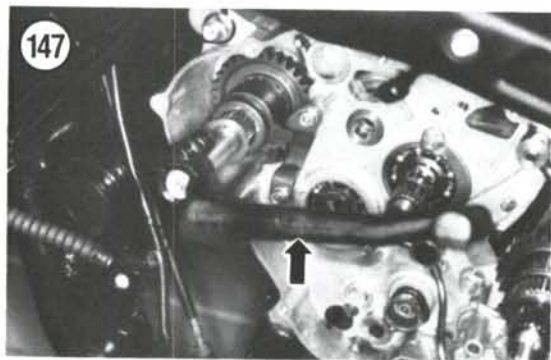
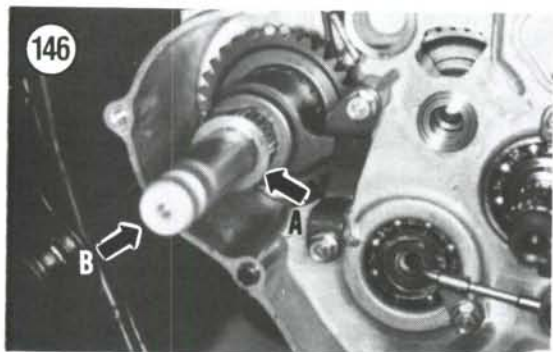


KICKSTARTER

Removal

1. Drain the engine oil as described in Chapter Three.
2. Remove the right-hand crankcase cover as described in this chapter.
3. Remove both clutch assemblies as described in Chapter Five.
4. Slide off the thrust washer (A, **Figure 146**) from the kickstarter shaft.
5. Temporarily install the kickstarter lever (**Figure 147**) onto the kickstarter shaft.



6. Rotate the kickstarter lever *clockwise* to free the ratchet pawl from the ratchet guide mounted on the crankcase and the return spring. Pull the assembly slightly outward.

CAUTION

*There is a thrust washer on the inner end of the kickstarter shaft assembly. The thrust washer may stay on the crankcase surface or come out with the shaft assembly. This washer presents a potential problem since there is an opening (A, **Figure 148**) in the crankcase just forward of where this washer is located. If the washer falls off of the shaft it may fall into this opening and drop to the bottom of the crankcase. If you are **not** disassembling the crankcase, be **extremely careful** when withdrawing the kickstarter shaft assembly so that this thrust washer does not fall off and into the crankcase. If the washer does fall off and into this opening you will have to disassemble the crankcase to retrieve the washer.*

7. Withdraw the kickstarter shaft assembly (B, **Figure 146**) from the crankcase and remove the kickstarter lever from the assembly.

Disassembly

Refer to **Figure 149** for this procedure.

1. Slide off the thrust washer and the return spring collar.
2. Remove the return spring.
3. From the other end of the shaft, remove the circlip and slide off the spring seat and spring.
4. Slide off the ratchet.
5. Remove the circlip and thrust washer, then slide off the kickstarter drive gear.
6. Inspect all parts as described in this chapter.

Inspection

1. Check for chipped or missing teeth on the kickstarter gear (A, **Figure 150**).
2. Check all parts for uneven wear; replace as necessary.
3. Inspect the inner splines (**Figure 151**) on the kickstarter ratchet for wear or damage. Replace the ratchet if necessary.

4. Inspect both sets of splines (A, **Figure 152**) on the kickstarter shaft for wear or damage. Replace the shaft if necessary.

5. Check the ratchet surfaces (B, **Figure 150**) on both the kickstarter ratchet and the kickstarter drive gear for wear; replace if necessary.

6. Measure the outside diameter of the kickstarter shaft (B, **Figure 152**) where the kickstarter drive gear rides. Compare to specifications listed in **Table 1**. If worn to the service limit dimension or less, replace the shaft.

7. Measure the inside diameter of the kickstarter drive gear (**Figure 153**). Compare to specifications listed in **Table 1**. If worn to the service limit dimension or greater, replace the gear.

8. Make sure the ratchet guide bolts (B, **Figure 148**) are tight. Tighten securely if necessary.

Assembly

1. Apply clean engine oil to all sliding surfaces of all parts prior to assembly and installation.

2. Position the kickstarter drive gear with the ratchet surface going on last and install the gear (**Figure 154**).

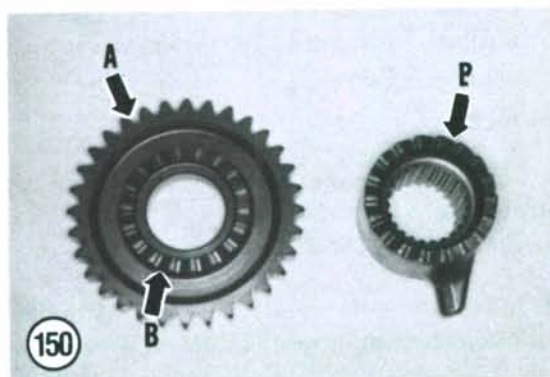
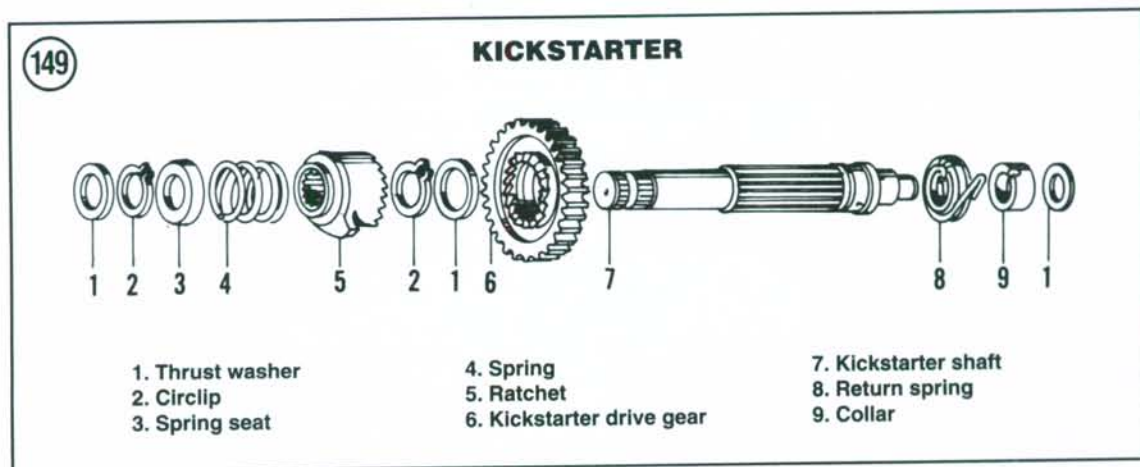
3. Install the thrust washer (A, **Figure 155**) and the circlip (B, **Figure 155**). Make sure the circlip is correctly seated in the groove in the kickstarter shaft (**Figure 156**).

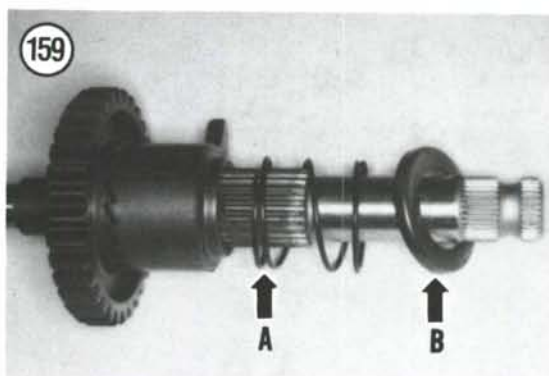
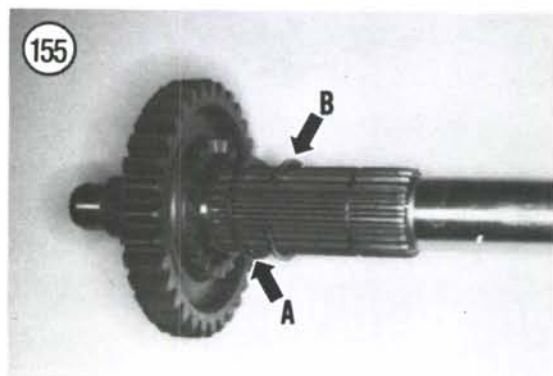
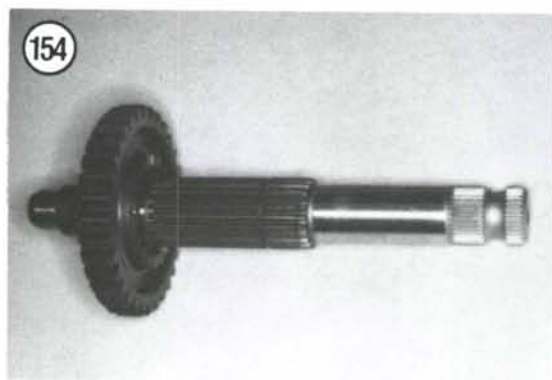
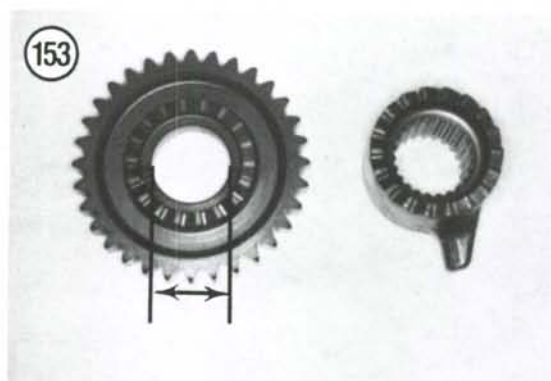
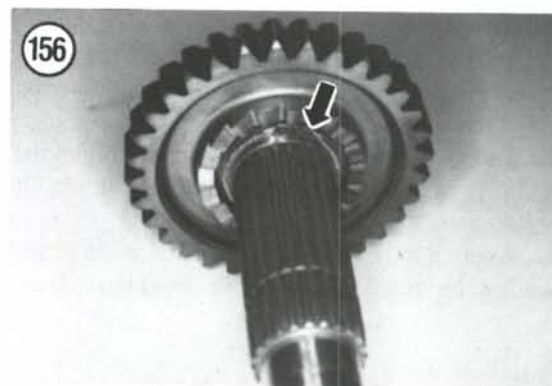
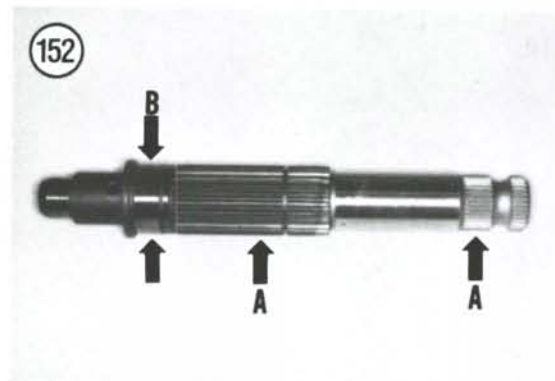
4. Position the kickstarter ratchet so the index marks (**Figure 157**) will align after the ratchet is installed.

5. Slide the kickstarter ratchet onto the kickstarter shaft. Make sure the index marks (**Figure 158**) on both parts are aligned correctly. Reposition if necessary.

6. Slide on the ratchet spring (A, **Figure 159**) and spring seat (B, **Figure 159**).

7. Install the circlip (**Figure 160**) and make sure the circlip is correctly seated in the groove in the kickstarter shaft (**Figure 161**).





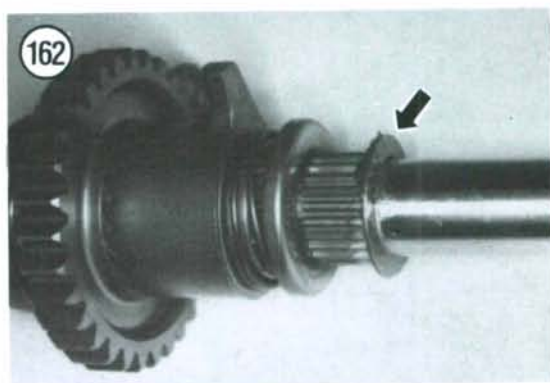
8. Install the thrust washer (Figure 162).
9. Onto the other end of the shaft, install the return spring (A, Figure 163) and insert the end into the hole in the kickstarter shaft.
10. Slide the plastic collar (B, Figure 163) into the return spring. Push the collar all the way in until it seats.
11. Apply a light coat of cold grease to the thrust washer and slide on the thrust washer (Figure 164).

Installation

CAUTION

The thrust washer on the inner end of the kickstarter shaft assembly presents a problem during the installation procedure just as it did during the removal procedure. Make sure you applied cold grease to the washer during the assembly steps to hold it onto the end of the plastic collar. If the thrust washer falls off during installation it may fall into the crankcase opening and drop to the bottom of the crankcase. If you have a problem installing the kickstarter assembly, be extremely careful when withdrawing the kickstarter shaft assembly for a 2nd or 3rd attempt. Make sure that the thrust washer does not fall off and into the crankcase.

1. Make sure the "infamous" thrust washer is installed onto the inner end of the kickstarter assembly.
2. Install the kickstarter assembly into the crankcase (Figure 165).
3. Temporarily install the kickstarter lever (Figure 147) onto the kickstarter shaft assembly.
4. Rotate the kickstarter assembly clockwise (Figure 166) and hook the end of the return spring onto the



raised rib on the crankcase (A, **Figure 167**). You will usually hear a click when the return spring hooks on correctly.

5. Continue to rotate the kickstarter assembly *clockwise* and hook the ratchet pawl onto the ratchet guide (B, **Figure 167**) on the crankcase.

6. After installation is complete, make sure the punch mark on the kickstarter shaft is pointing straight UP. If the punch mark is pointing straight down, the ratchet was incorrectly aligned onto the kickstarter

shaft during the assembly procedure. Refer to Step 4 and Step 5, *Assembly* in this chapter.

7. Check the operation of the kickstarter drive gear at this point as follows:

- a. With the kickstarter lever in the relaxed position; spin the gear—it should spin freely.
- b. Move the kickstarter *clockwise* about 90°. Try to spin the kickstarter gear—it should not spin since the ratchet is now meshed with the backside of the drive gear.

8. Remove the kickstarter lever.

9. Install both clutch assemblies as described in Chapter Five.

10. Install the right-hand crankcase cover as described in this chapter.

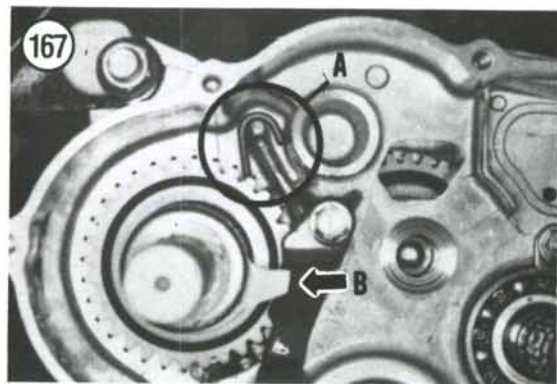
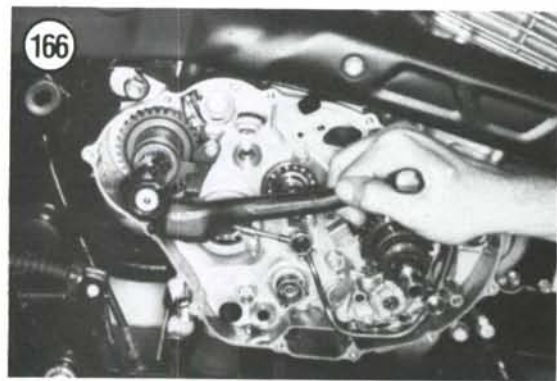
11. Fill the engine with the recommended type and quantity of engine oil as described in Chapter Three.

RIGHT-HAND CRANKCASE COVER

Refer to **Figure 168** for this procedure.

Removal

1. Place the vehicle on level ground and set the parking brake.
2. Drain the engine oil as described in Chapter Three.
3. Shift the transmission into NEUTRAL.
4. Remove the bolts securing the right-hand foot peg assembly (**Figure 169**) and move the assembly out of the way.
5. Remove the bolt securing the kickstarter lever (**Figure 170**) and remove the lever.
6. Remove the bolt and sealing washers (**Figure 171**) securing the external oil line to the right-hand crankcase cover. Don't lose the sealing washers.
7. Remove the bolt securing the switch cover (**Figure 172**) and remove the cover.
8. Disconnect the electrical wires from the neutral and the reverse switches (A, **Figure 173**) and from the oil high temperature sensor (B, **Figure 173**). Move the wires out of the way.
9. Remove the bolt securing the reverse cable bracket and unhook the cable (C, **Figure 173**) from the reverse cable holder arm.
10. Remove the bolt securing the reverse cable holder arm to the shaft and remove the holder arm.



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